



Syllabus for the IIT JAM exam 2020

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Candidates can go through the major subjects and topics covered under IIT JAM syllabus for all seven test papers discussed below:

Biological Sciences (BL): The topics of biological science are:

- General Biology
- Basics of Biochemistry, Molecular Biology, Biophysics
- Microbiology, Cell Biology and Immunology
- Mathematical Sciences

Biotechnology (BT): The subject included in this test papers are:

- Biology (10+2+3 level): This includes topics of
- General Biology
- Biochemistry and Physiology
- Basic Biotechnology
- Molecular Biology
- Cell Biology
- Microbiology
- Chemistry (10+2+3 level)
- Mathematics (10+2 level)
- Physics (10+2 level)

Chemistry (CY), Geology (GG), Mathematics (MA): the subject included in this test papers are:

- Physical Chemistry: it includes topics as under:
- Basic Mathematical Concepts
- Atomic and Molecular Structure
- Theory of Gases
- Solid state

- Chemical Thermodynamics
- Chemical and Phase Equilibria
- Electrochemistry
- Chemical Kinetics
- Adsorption
- Spectroscopy
- Organic Chemistry: it includes topics as under:
 - Basic Concepts in Organic Chemistry and Stereochemistry
 - Organic Reaction Mechanism and Synthetic Applications
 - Qualitative Organic Analysis
 - Natural Products Chemistry
 - Aromatic and Heterocyclic Chemistry
- Inorganic Chemistry: it includes topics as under:
 - Periodic Table
 - Chemical Bonding and Shapes of Compounds
 - Main Group Elements (s and p blocks)
 - Transition Metals (d block)
 - Bioinorganic Chemistry
- Instrumental Methods of Analysis
- Analytical Chemistry
- The Planet Earth
 - Geomorphology
 - Structural Geology
 - Palaeontology
 - Stratigraphy
 - Mineralogy
 - Petrology
 - Economic Geology

- Applied Geology
- Sequences and Series of Real Numbers
- Functions of One Real Variable
- Functions of Two or Three Real Variables
- Integral Calculus
- Differential Equations
- Vector Calculus
- Group Theory
- Linear Algebra
- Real Analysis

Mathematical Statistics (MS): This includes subjects are:

- Mathematics: it includes topics as under:
 - Sequences and Series
 - Differential Calculus
 - Integral Calculus
 - Matrices
- Statistics: it includes topics as under:
 - Probability
 - Random Variables
 - Standard Distributions
 - Joint Distributions
 - Sampling distributions
 - Limit Theorems
 - Estimation
 - Testing of Hypotheses
- Physics (PH): it includes topics as under:
 - Mathematical Methods
 - Mechanics and General Properties of Matter

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- Oscillations, Waves and Optics
- Electricity and Magnetism
- Kinetic theory, Thermodynamics
- Modern Physics
- Solid State Physics, Devices and Electronics

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